

APPLICANT: Kenneth James Bunker DOCKET NO: 7038.3011.001
 SERIAL NO: Not Yet Assigned
 FILED: Herewith
 FOR: SINTERED STEEL MATERIAL

Commissioner for Patents
 BOX PCT
 Washington, D.C. 20231

March 25, 2002

Sir:

PRELIMINARY AMENDMENT

Prior to the first action in this application, please amend it as follows:

Substitute the attached one page abstract for the abstract originally filed.

Rewrite the following paragraph at line 1 of page 16 as follows:

-- What is claimed is: --

Rewrite claim 3 as follows:

3 (Amended). A method according to claim 1 characterised by said brake-actuating thrust being generated by a hydraulic piston and cylinder mechanism to which said servo motor supplies hydraulic fluid under pressure.

Rewrite claim 4 as follows:

4 (Amended). A method according to claim 1 characterised by said servo motor being arranged itself to generate said brake-actuating thrust.

CERTIFICATION 37 C.F.R. 1.10

I hereby certify that, on the date shown below, this correspondence is being deposited with the United States Postal Service, in an envelope as "Express Mail Post Office to Addressee" Mailing Label No. EL695707323US addressed to the Commissioner for Patents, Washington, D.C. 20231.


 Signature

Date: March 25, 2002

Nicole R. Schmoltz
 (type or print name of person certifying)

10/089011 JG13 REG PCT/10 25 MAR 2002

Rewrite claim 6 as follows:

6 (Amended). A braking system of a motor vehicle comprising providing an electrically powered servo motor adapted to generate brake-actuating thrust and characterised by a disc brake comprising at least two brake discs adapted to be axially slidably mounted on a hub, together with associated friction elements interleaved with said discs and said servo motor being arranged to actuate said assembly of brake discs and friction elements to effect braking.

Rewrite claim 7 as follows:

7 (Amended). A system according to claim 5 characterised by said brake-actuating thrust being generated by a hydraulic piston and cylinder mechanism to which said servo motor supplies hydraulic fluid under pressure.

Rewrite claim 8 as follows:

8 (Amended). A system according to claim 5 characterised by said servo motor being arranged itself to generate said brake-actuating thrust.

Cancel claim 9.

Add the following claims:

10. A method according to claim 2 characterised by said brake-actuating thrust being generated by a hydraulic piston and cylinder mechanism to which said servo motor supplies hydraulic fluid under pressure.

11. A method according to claim 2 characterised by said servo motor being arranged itself to generate said brake-actuating thrust.

12. A system according to claim 6 characterised by said brake-actuating thrust being generated by a hydraulic piston and cylinder mechanism to which said servo motor supplies hydraulic fluid under pressure.

13. A system according to claim 5 characterised by said servo motor being arranged itself to generate said brake-actuating thrust.

SERIAL NO: Not Yet Assigned

-4-

REMARKS

Examination of this application as amended is respectfully requested.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attachment is captioned **VERSION WITH MARKINGS TO SHOW CHANGES MADE.**

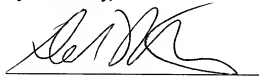
It is believed that this application now is in condition for allowance. Further and favorable action is requested.

The Office is authorized to charge or refund any fee deficiency or excess to Deposit Account No. 12-0755.

Respectfully submitted,

Kenneth James Bunker

By his attorney,



Registration No. 36,937
Robert L. Stearns
5291 Colony Drive North
Saginaw, Michigan 48603
989-799-5300

nrs
enc

VERSION WITH MARKINGS TO SHOW CHANGES MADE

Substitute the attached one page abstract for the abstract originally filed.

Paragraph beginning at line 1 of page 16 has been amended as follows:

What is claimed is: [CLAIMS : -]

Claim 3 has been amended as follows:

3 (Amended). A method according to claim 1 [or claim 2] characterised by said brake-actuating thrust being generated by a hydraulic piston and cylinder mechanism to which said servo motor supplies hydraulic fluid under pressure.

Claim 4 has been amended as follows:

4 (Amended). A method according to claim 1 [or claim 2] characterised by said servo motor being arranged itself to generate said brake-actuating thrust.

Claim 6 has been amended as follows:

6 (Amended). A braking system of a motor vehicle comprising providing an electrically powered servo motor adapted to generate brake-actuating thrust and characterised by a disc brake comprising at least two brake discs adapted to be axially slidably mounted on a hub, together with associated friction elements interleaved with said discs and said servo motor being arranged to actuate said assembly of brake discs and friction elements to effect braking.

Claim 7 has been amended as follows:

7 (Amended). A system according to claim 5 [or claim 6] characterised by said brake-actuating thrust being generated by a hydraulic piston and cylinder mechanism to which said servo motor supplies hydraulic fluid under pressure.

Claim 8 has been amended as follows:

8 (Amended). A system according to claim 5 [or claim 6] characterised by said servo motor being arranged itself to generate said brake-actuating thrust.

SERIAL NO: Not Yet Assigned

-6-

Claim 9 has been canceled.

Add claims 10-13.

11
00
00
00
00
00
11
"
00
00
00
00
00

ABSTRACT

Method and apparatus for controlling the front and rear wheel braking system of a road-going mass-produced motor car or automobile enables provision of brake-by-wire facilities utilizing an electrically-powered servo motor to generate brake-operating thrust which is applied to the interleaved friction elements and twin discs of a disc brake having axially slideable discs and a fixed caliper and disc and friction element-attitude control structure. The brake is of spot-type disc brake construction and the servo motor applies less brake-actuating thrust than is required for a comparable fixed disc and floating caliper construction.